	Application No.	Applicant(s)
Notice of Allowability	10/623,567	KIM, SUNGHOON
	Examiner	Art Unit
	Bridget E. Bunner	1647
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to the amendment and responses of 8/9/06 and 9/11/06, respectively.		
2. The allowed claim(s) is/are <u>1-9</u> .		
3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No.		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ⊠ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date <u>20061207</u> .		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal Pa	atent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary (, .
_	Paper No./Mail Date	ė l
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendm	rent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		nt of Reasons for Allowance
	9. Other	

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DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11 September 2006 has been entered.

Status of Application, Amendments and/or Claims

The amendment of 09 August 2006 has been entered in full. Claim 1 is amended.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d) on 08 December 2003, which papers have been placed of record in the file.

Drawings

The drawings filed on 15 November 2004 are acceptable subject to correction of the informalities indicated herein. In order to avoid abandonment of this application, correction is required in reply to the Office action. The correction will not be held in abeyance. Specifically, in Figure 4B, the 3 separate bars in the bar graph are difficult to tell apart from one another due to scanning/photocopying. Additionally, Figures 6, 9A-9C, and 10 are dark and the results shown therein are difficult to discern.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

Replacement Drawing Sheets

Drawing changes must be made by presenting replacement sheets which incorporate the desired changes and which comply with 37 CFR 1.84. An explanation of the changes made must be presented either in the drawing amendments section, or remarks, section of the amendment

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paper. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). A replacement sheet must include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of the amended drawing(s) must not be labeled as "amended." If the changes to the drawing figure(s) are not accepted by the examiner, applicant will be notified of any required corrective action in the next Office action. No further drawing submission will be required, unless applicant is notified.

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Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and within the top margin.

Annotated Drawing Sheets

A marked-up copy of any amended drawing figure, including annotations indicating the changes made, may be submitted or required by the examiner. The annotated drawing sheet(s) must be clearly labeled as "Annotated Sheet" and must be presented in the amendment or remarks section that explains the change(s) to the drawings.

Timing of Corrections

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.85(a). Failure to take corrective action within the set period will result in ABANDONMENT of the application.

If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability.

Applicant is reminded that the Patent and Trademark Office no longer makes drawing changes and that it is applicant's responsibility to ensure that the drawings are corrected in accordance with the instructions set forth herein.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

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1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Gould on 07 December 2006.

The application has been amended as follows:

At pg 4, line 18 after the phrase "a bar graph" insert "(B)".

REASONS FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowance:

The claims are directed to a method for stimulating wound healing in a subject comprising administering to a wound of the subject an effective amount of a composition for stimulating wound healing, wherein the composition comprises a polypeptide having the amino acid sequence set forth in SEQ ID NO: 1. The specification of the instant application discloses that the protein of SEQ ID NO: 1 (also termed, p43) stimulates macrophage/monocyte and endothelial cell migration, stimulates proliferation of fibroblasts, and induces angiogenesis (Figures 9 and 10; pg 17-22). The specification also teaches that wounds in wild type mice treated with p43 recovered faster as compared to homozygous p43 mutant mice or wild type mice not treated with p43 (Figures 4-5; pg 16-17). The p43 protein of SEQ ID NO:1 of the instant application is well known in the prior art and has been shown to upregulate proinflammatory cytokines, such as IL-6, IL-8, TNF-α, MCP-1, MIP-1α, MIP-1β, and RANTES 9 from human monocytic THP-1 cells, as well as induce cell adhesion *in vitro* (Kim et al. WO

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01/95927, pg 8, 12; see also Ko et al. 276(25): 23028-23033, 2001; Park et al., J Leuk Biol 71: 223-230, 2002 (all cited previously)). However, the prior art also teaches that the p43 protein is anti-angiogenic (see for example, Kim et al. and Schwarz et al., U.S. Patent 6,875,749) or has dose-dependent biphasic activity in angiogenesis (Park et al., J Biol Chem 277(47): 45243-45248, 2002).

Thus, the instant application discloses the unexpected finding that the p43 protein of SEQ ID NO: 1 stimulates wound healing in a subject, as recited in the instant claims.

The art made of record and not relied upon is considered pertinent to applicant's disclosure:

Park et al. Am J Pathol 166: 387-398, 2005 (post-filing date reference by instant inventor that teaches the claimed invention)

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bridget E. Bunner whose telephone number is (571) 272-0881. The examiner can normally be reached on 8:30-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on (571) 272-0961. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BEB Art Unit 1647 07 December 2006

BRIDGET BUNNER
PATENT EXAMINER